Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Construction Of Roads And Drains At 22nd B Cross Roads. Housing Board C Block Near Hoysala Stadium in Ward no.04 Yelahanka Satellite Town Sub Division.

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	**Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)**								
	Basic rate	105.00							
	Area Weightage 6%	6.30							
	Total	**111.30**							
		Sqm							
	Near Hoysala Stadium								
	6th Cross Rd		2	66.00	0.90		118.80		
	1st Main Road		2	60.00	0.75		90.00		
	1st Cross Road		2	68.00	0.90		122.40		
	Matru Layout Main Rd		1	100.00	0.90		90.00		
							421.20		
	Deduct 60% Missing Slab						252.72		
							168.48	**111.30**	**18,751.82**
2	KSRRB300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.(I.NO 19.1,Page no 143 SR 2018-19)								
	Basic rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloading & Lead,8KM, (57+ 2*1.28*8)	77.48							
	Total	**215.28**							
		Cum							
	For DRAIN Desilt								
	Near Hoysala Stadium								
	6th Cross Rd		2	66.00	0.60	0.50	39.60		
	1st Main Road		2	60.00	0.45	0.50	27.00		
	1st Cross Road		2	68.00	0.60	0.50	40.80		
	For RCC Culvert Desilt								
	CD-3		1	9.50	1.35	0.50	6.41		
	For RCC Drain								
	7th B Main Road Dead End		1	25.00	1.40	1.20	42.00		
	Connecting Drain 2nd Main Rd To 1st Main Rd		1	25.00	1.00	1.00	25.00		
	Matru Layout Main Rd		1	100.00	1.10	1.00	110.00		
	RCC Culvert								
			4	8.40	1.50	0.90	45.36		
			1	4.50	1.80	0.90	7.29		
							343.46	**215.28**	**73,940.61**
3	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	Basic Rate	**5115.00**							

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	4.4*103.69	456.24							
	Sub total	5571.24							
	6% Area weightage	334.27							
	Total	**5905.51**							
		Cum							
	For RCC Drain								
	Near Hoysala Stadium								
	7th B Main Road Dead End		1	25.00	1.40	0.15	5.25		
	Connecting Drain 2nd Main Rd To 1st Main Rd		1	25.00	1.00	0.15	3.75		
	Matru Layout Main Rd		1	100.00	1.10	0.15	16.50		
	RCC Culvert								
			4	8.40	1.50	0.15	7.56		
			1	4.50	1.80	0.15	1.22		
							34.28	**5905.51**	**202411.36**
4	KSRRB M2200-6. Providing **TMT Bars Fe 500 steel reinforcement** for R.C.C. work including straightening, cutting, bending, hooking, placing in postion, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials,								
	Basic Rate	85468.00							
	Area Weightage 6%	5128.08							
		90596.08							
		Tn							
	Consider 60kg/cum for drain		1	38.81		0.06	2.33		
	Consider 80kg/cum for drain		1	10.88		0.08	0.87		
	Consider 80kg/cum for culvert		1	18.18		0.08	1.45		
							4.65	**90596.08**	**421535.41**
5	Providing and laying plain/reinforced cement concrete for side drains using **M20 nominal mix concrete with OPC at 300 kgs.** With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	6670.00							
	6*103.69	622.14							
	Sub total	7292.14							
	6% Area weightage	437.53							
	Total	**7729.67**							
		Cum							
	Near Hoysala Stadium								
	For RCC DRAIN Raft								
	7th B Main Road Dead End		1	25.00	1.20	0.15	4.50		
	Connecting Drain 2nd Main Rd To 1st Main Rd		1	25.00	0.75	0.15	2.81		
	Matru Layout Main Rd		1	100.00	0.90	0.15	13.50		
	For RCC DRAIN Wall								

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
th B Main Road Dead End		2	25.00	0.15	0.85	6.38		
Connecting Drain 2nd Main Rd To 1st Main Rd		2	25.00	0.15	0.60	4.50		
Matru Layout Main Rd		2	100.00	0.15	0.60	18.00		
						49.69		
RCC Culvert Raft								
		4	8.40	1.20	0.20	8.06		
		1	4.50	1.50	0.20	1.35		
RCC Culvert Wall								
		8	8.40	0.23	0.50	7.73		
		2	4.50	0.23	0.50	1.04		
						18.18		
						67.86	**7729.67**	**524570.08**
6	Providing and Fixing **Pre cast covering Slab 100mm thick** made out of CC, jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge.							
	Data rate	**1922.00 Sqm**						
	Pre Cast Covering Slab							
	Near Hoysala Stadium							
	For Item no-01					252.72		
	Connecting Drain 2nd Main Rd To 1st Main Rd		1	25.00	0.75	18.75		
						271.47	**1922.00**	**521765.34**
7	Providing and Fixing **pre cast covering Slab 150mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)							
	Data rate	**2493.00 Sqm**						
	RCC Drain							
	Near Hoysala Stadium							
	7th B Main Road Dead End		1	25.00	1.20	30.00		
	Connecting To SWD Drain		1	7.00	1.80	12.60		
						42.60	**2493.00**	**106201.80**
8	Providing and fixing **RCC precast cover slab of 230mm thick** for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the							
	Data rate	**4486.00 Sqm**						
	RCC Culvert Covering Slab							
			4	8.40	1.20	40.32		
			1	4.50	1.50	6.75		
			1	9.50	1.80	17.10		
						64.17	**4486.00**	**287866.6**

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	KSRRB M300-14. **Excavation for roadwork in soil with hydraulic excavator** of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications. MORTH Specification No.301 (P.No-143, I No-19.14)								
	Basic rate	41.00							
	Area Weightage 6%	2.46							
	Lead 8KM	20.48							
	Total	**63.94**							
		Cum							
	For New C.C ROAD								
	Cross Rd		1	20.00	2.40	0.30	14.40		
							14.40	**63.94**	**920.74**
10	KSRRB M600-1.Providing and **Constructing dry lean cement concrete mix** CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. (P.No-174,I No-21.1.2,KPWD SR 2018-19)								
	Basic Rate	3665.00							
	3*103.69	311.07							
	Sub total	3976.07							
	Area Weightage 6%	238.56							
		4214.63							
		Cum							
	For New C.C ROAD								
	Cross Rd		1	20.00	2.40	0.15	7.20		
							7.20	**4214.63**	**30,345.37**
11	Constructing un-reinforced, plain cement concrete for pavements using **Grade concrete M30** over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound.(P.No-176,I No-22.6.1,KPWD SR 2018-19)								
	Basic Rate	4916.00							
	7.2*103.69	746.57							
	Sub total	5662.57							
	Area Weightage 6%	339.75							
	Total	**6002.32**							
		Cum							
	For New C.C ROAD								
	Cross Rd		1	20.00	2.40	0.15	7.20		
							7.20	**6002.32**	**43,216.72**

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
							Total Construction Cost	2231525.8
							Towards GST 12%	267783.1
							Sub Total	2499308.9
							Miscellaneous & Rounding Off	691.0
							Total	2500000.0

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 02-11-2021 and Data Rates

Assistant Engineer
Ward 04
BBMP Bangalore

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Administrative Approval

Accorded For ..25.00 lakhs
Head of A/C...3726.....
CER NO :....63..... Dt:.13/12/2021

TA CE (YNK)

Technical Sanction

Accorded For ..25.00 lakhs
Head of A/C...3726.....
CER NO :....66..... Dt:.13/12

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